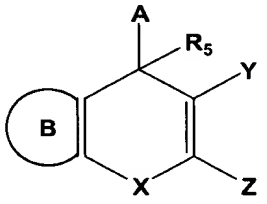
Amendments to the Claims

The listing of claims will replace all prior versions, and listings of claims in the application.

1. - 40. (canceled)

41. (previously presented) A pharmaceutical composition comprising a pharmaceutically acceptable excipient or carrier and a compound of Formula I:



(I)

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

X is O;

Y is CN;

Z is NR_8R_9, wherein R_8 and R_9 are independently H or C_{1-4} alkyl;

R_5 is hydrogen or C_{1-10} alkyl;

A is optionally substituted C_{6-14} aryl; and

B is an optionally substituted indolo ring.

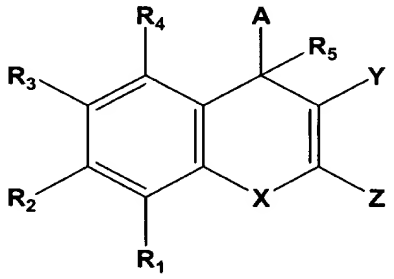
42. (previously presented) The pharmaceutical composition of claim 41, wherein A is optionally substituted phenyl.

43. (canceled)

44. (original) The pharmaceutical composition of claim 41, wherein X is O, Y is CN and Z is NH_2.

45. (original) The pharmaceutical composition of claim 41, wherein R_5 is hydrogen.

46. (previously presented) The pharmaceutical composition of claim 41, comprising a pharmaceutically acceptable excipient or carrier and a compound of Formula II:



(II)

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

R_3-R_4 are independently hydrogen, halo, haloalkyl, aryl, carbocyclic, C_{1-10} alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, carbocycloalkyl, hydroxyalkyl, aminoalkyl, carboxyalkyl, nitro, amino, cyano, acylamido, hydroxy, thiol, acyloxy, azido, alkoxy, carboxy, methylenedioxy, carbonylamido or alkylthiol; R_1 and R_2 taken together with the atoms to which they are attached form a pyrrolo group, wherein said group is optionally substituted;

wherein the aryl portion of said arylalkyl, the aryl portion of said arylalkenyl and the aryl portion of said arylalkynyl are each independently C_{6-14} aryl; and

said carbocyclic is C_{3-8} cycloalkyl or C_{3-8} cycloalkenyl.

47. (previously presented) The pharmaceutical composition of claim 46, wherein R_1 and R_2 are taken together to form a structure –CH=CH–N(R)–, wherein R is hydrogen, C_{1-10} alkyl, haloalkyl, aryl, fused aryl, carbocyclic, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl or aminoalkyl.

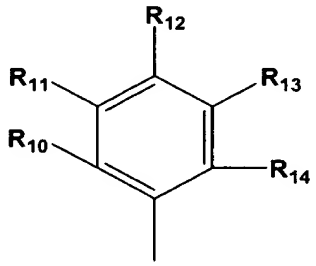
48.- 49. (canceled)

50. (previously presented) The pharmaceutical composition of claim 46, wherein Z is NH_2.

51. (original) The pharmaceutical composition of claim 46, wherein R_5 is hydrogen.

52. (canceled)

53. (previously presented) The pharmaceutical composition of claim 46 comprising said compound or a pharmaceutically acceptable salt or prodrug thereof, wherein said optionally substituted C_{6-14} aryl is



and

(a) R_{10}-R_{14} are independently hydrogen, halo, haloalkyl, aryl, fused aryl, carbocyclic, C_{1-10} alkyl, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl,

carbocycloalkyl, hydroxyalkyl, aminoalkyl, carboxyalkyl, nitro, amino, cyano, acylamido, hydroxy, thiol, acyloxy, azido, alkoxy, carboxy, methylenedioxy, carbonylamido or alkylthiol; or

(b) R_{10} and R_{11}, or R_{11} and R_{12}, taken together with the atoms to which they are attached form a fused portion of said optionally substituted C_{6-14} aryl, wherein said fused portion is optionally substituted.

54. (previously presented) The pharmaceutical composition of claim 53, wherein R_1 and R_2 are taken together to form a structure –CH=CH–N(R)–, wherein R is hydrogen, C_{1-10} alkyl, haloalkyl, aryl, fused aryl, carbocyclic, alkenyl, alkynyl, arylalkyl, arylalkenyl, arylalkynyl, carbocycloalkyl, heterocycloalkyl, hydroxyalkyl or aminoalkyl.

55. - 59. (canceled)

60. (previously presented) The pharmaceutical composition of claim 54, wherein R_3, R_4 and R_5 are each hydrogen.

61. - 62. (canceled)

63. (previously presented) A pharmaceutical composition comprising a pharmaceutically acceptable excipient or carrier and a compound selected from the group consisting of:

2-Amino-3-cyano-4-(3-methoxy-4,5-methylenedioxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(2-bromo-4,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-8-methyl-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3,4,5-trimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-nitrophenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-cyanophenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran; and

9-Acetamide-2-amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4H-indolo[4,5-b]pyran.

64.-65. (canceled).

66. (original) The pharmaceutical composition of claim 41, wherein said excipient or carrier is selected from the group consisting of saccharides, starch pastes, gelatin, tragacanth, cellulose preparations, calcium phosphates and polyvinyl pyrrolidone.

67. (original) The pharmaceutical composition of claim 66, wherein said excipient or carrier is a saccharide selected from the group consisting of lactose, sucrose, manitol and sorbitol.

68. (original) The pharmaceutical composition of claim 41, wherein said excipient or carrier is a lipophilic solvent.

69. (original) The pharmaceutical composition of claim 68, wherein said lipophilic solvent is selected from the group consisting of fatty oils, fatty acid esters, polyethylene glycols and paraffin hydrocarbons.

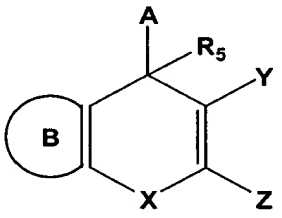
70. (original) The pharmaceutical composition of claim 69, wherein said lipophilic solvent is selected from the group consisting of sesame oil, ethyl oleate, triglycerides, polyethylene glycol-400, cremophor and cyclodextrins.

71. (original) The pharmaceutical composition of claim 41, wherein said excipient or carrier is selected from the group consisting of vegetable oils, mineral oils, white petrolatum, branched chain fats, branched chain oils, animal fats and high molecular weight alcohol (greater than C_{12}).

72. (original) The pharmaceutical composition of claim 41, wherein said excipient or carrier is a saline solution.

73. - 74. (canceled)

75. (previously presented) A compound of Formula I:



(I)

or a pharmaceutically acceptable salt or prodrug thereof, wherein:

B is optionally substituted indolo;

X is O;

Y is CN;

Z is NR_8R_9, wherein R_8 and R_9 are independently H or C_{1-4}alkyl;

R_5 is hydrogen or C_{1-10} alkyl; and

A is optionally substituted C_{6-14} aryl.

76. (original) The compound of claim 75, wherein said compound is an optionally substituted 4H-indolo[4,5-b]pyran.

77. (original) The compound of claim 76, wherein A is optionally substituted phenyl.

78. (previously presented) A compound selected from the group consisting of:

2-Amino-3-cyano-4-(3-methoxy-4,5-methylenedioxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(2-bromo-4,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-8-methyl-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3,4,5-trimethoxyphenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-nitrophenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3-cyanophenyl)-4*H*-indolo[4,5-b]pyran;

2-Amino-3-cyano-4-(3,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran; and

9-Acetamide-2-amino-3-cyano-4-(3-bromo-4,5-dimethoxyphenyl)-4*H*-indolo[4,5-b]pyran.

79. (canceled)

80. (previously presented) The pharmaceutical composition of claim 41, wherein said aryl is selected from the group consisting of phenyl, naphthyl, penanthrenyl, anthracenyl, indenyl, azulenyl, biphenyl, biphenylenyl and fluorenyl.

81. (previously amended) The compound of claim 75, wherein said aryl is selected from the group consisting of phenyl, naphthyl, penanthrenyl, anthracenyl, indenyl, azulenyl, biphenyl, biphenylenyl and fluorenyl.

82. - 93. (canceled)

94. (new) The pharmaceutical composition of claim 41, wherein said aryl is phenyl.

95. (new) The compound of claim 75, wherein said aryl is phenyl.